PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or secretar file					
Applicant's or agent's file reference SC(PCT)-80	FOR FURTHER A	CTION	See Form PCT/IPEA/416		
International application No. PCT/JP2003/016331		ate (day/month/year) 003 (19.12.2003)	Priority date (day/month/year) 21 January 2003 (21.01.2003)		
International Patent Classification (IPC) or na C08L 29/10, C08J 3/12, C08L 35	ational classification a	nd IPC			
Applicant SONY CHEMICALS CORP.					
This report is the international prelim Authority under Article 35 and transi	ninary examination rep mitted to the applicant	port, established by this according to Article 3	International Preliminary Examining 6.		
2. This REPORT consists of a total of4 sheets, including this cover sheet.					
3. This report is also accompanied by ANNEXES, comprising:					
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))					
readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items:					
Box No. I Basis of the report					
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain observa	tions on the internation	nal application			
Date of submission of the demand		Date of completion of	f this report		
27 January 2004 (27.01.2004)		26 A	ugust 2004 (26.08.2004)		
Name and mailing address of the IPEA/JP		Authorized officer			
Facsimile No.		Telephone No			

Translation



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/016331

Box No	. I	Basis of the report
1. With other	regard wise in	I to the language, this report is based on the international application in the language in which it was filed, unless ndicated under this item.
	This which	report is based on translations from the original language into the following language, ch is language of a translation furnished for the purpose of:
		international search (under Rules 12.3 and 23.1(b))
		publication of the international application (under Rule 12.4)
		international preliminary examination (under Rules 55.2 and/or 55.3)
furni.	shed to ire not	d to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" annexed to this report):
		nternational application as originally filed/furnished
		escription:
	pages	, and the months of the months
	pages	
		laims;
	pages	, , , , , , , , , , , , , , , , , , , ,
	pages	* received by this Authority on
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	pages	, as originary mourtainships
	pages	
	D 606	
ш	a scy	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3	The a	mendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to sequence listing (specify):
4.	made	report has been established as if (some of) the amendments annexed to this report and listed below had not been since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box 170.2(c)).
		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
	\sqcap	the sequence listing (specify):
		any table(s) related to sequence listing (specify):
* If iten	n 4 app	olies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP03/16331

Box No.	IV	Lack of unity of invention
1.	In :	response to the invitation to restrict or pay additional fees the applicant has:
		restricted the claims.
		paid additional fees.
		paid additional fees under protest.
		neither restricted nor paid additional fees.
2. 🛚		Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, a invite the applicant to restrict or pay additional fees.
3. This	Autho	rity considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
	comp	lied with.
\boxtimes	not c	omplied with for the following reasons:
maleic ether-n 2 (Docupper r 19 to p	anhydas a r haleic umen ight c age 4	ter common to claims 1-17 is a reference to a resin prepared by crosslinking a methyl vinyl ether- dride copolymer with a multifunctional isocyanate compound disclosed in claim 1. esult of examination, however, it is found that a resin prepared by crosslinking a methyl vinyl anhydride copolymer with a multifunctional isocyanate compound is described in documents 1 and t 1: the claims; page 2, upper right column, line 5 to page 3, upper left column, line 18, and page 5, column, line 12 to lower left column, line 9. Document 2: the claims; page 3, upper left column, line , lower right column, line 14; page 5, lower right column, line 7 to page 7, lower left column, line 5, lower left column, line 3 to lower right column, line 12). Therefore, the resin does not appear to be
matter powder said liq crosslir solvent resin 3 publicl using t second differer	does On the The si Thus, Since Sente Thus,	neing the case, the resin of claim 1 does not go beyond the range of prior art and so this common not appear to be a specific technical feature in the sense of the second sentence of PCT Rule 13.2. The assumption as stated above, the subject matters of claims 1-17 would be as follows. The said publicly known resin and a binder resin, and a nonaqueous electrolyte battery pack using the bsorbing composite as an electrolytic solution-absorbing member. The said publicly known resin that a methyl vinyl ether-maleic anhydride copolymer is dissolved into a negan SP value of 9 to 14 so as to make the weight percentage of the liquid-absorbing crosslinked and adding a multifunctional isocyanate compound to the solution to allow crosslinking reaction. The subject matters of claims 6-11 and 17 relate to a liquid-absorbing sheet characterized in that the said two resin layer is formed on one side of a support base, and a nonaqueous electrolyte battery pack uid-absorbing sheet as an electrolytic solution-absorbing member. There is no common matter to all claims. There is no other common matter considered to be a special technical feature in the sense of the ence of PCT Rule 13.2, no technical relationship in the sense of PCT Rule 13 is found among those rentions. The subject matters of claims 1-17 do not meet the requirement of unity of invention.
4. Cons	sequen	tly, this report has been established in respect of the following parts of the international application: all parts. the parts relating to claims Nos

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Novelty (N)	Claims	1-5, 12-17	YE
	Claims	6-11	NO
Inventive step (IS)	Claims	1-5, 12-17	YE:
	Claims	6-11	МО
Industrial applicability (IA)	Claims	1-17	YE
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP, 58-46959, A (Nitto Electric Industrial Co., Ltd.), 18 March, 1983 (18.03.83) Document 2: JP, 4-176469, A (Terumo Corp.), 24 June, 1992 (24.06.92)

Since the subject matters of claims 6-11 are disclosed in documents 1 and 2 (Document 1: the claims; page 2, upper right column, line 5 to page 3, upper left column, line 18, and page 5, upper right column, line 12 to lower left column, line 9. Document 2: the claims; page 3, upper left column, line 19 to page 4, lower right column, line 14; page 5, lower right column, line 7 to page 7, lower left column, line 5, and page 8, lower left column, line 3 to lower right column, line 12), they do not appear to be novel or to involve an inventive step.

(When the subject matters of claims 6-11 are compared to the subject matter of claim 1, they look different in that the former specifies the mean molecular weight of a methyl vinyl ether-maleic anhydride copolymer but the latter does not. They are the same in all other respects.

Still, the mean molecular weight of methyl vinyl ether-maleic anhydride copolymer specified by the invention of the present application is in a range of those usually used by a person skilled in the art.